

Abstract

Provided is a process for preparing a smooth and glossy surfaced paper web. The process comprises subjecting the paper web to shear by using calender rolls driven at different speeds or calender rolls with different diameters. The 5 resulting paper has a totally different structure than the original paper, as it has a much smaller void structure and a much higher degree of bonding between the elements of the sheet. The process is particularly applicable to improving the electrical insulation properties of an aramid paper web.